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12/21/00

Attorney Docket No. READP042

First Named Inventor:

CHEN, Yingjian

This transmittal and the documents and/or fees itemized hereon and attached hereto have been deposited as "Express Mail Post Office to Addressee" in accordance with 37 CFR § 1.110 with Mailing Label

Number **EL624576173US**

JC966 U.S. PRO
 09/745708
 12/21/00

UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR § 1.53(b))




Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

☐ Duplicate for
fee processing

Sir: This is a request for filing a patent application under 37 CFR § 1.53(b) in the name of inventors:
Yingjian CHEN, Kyusik SIN, and Ron BARR

For: **INSULATION LAYER STRUCTURE FOR INDUCTIVE WRITE HEADS AND METHOD OF FABRICATION**

Application Elements:

- | | |
|---|---|
|  | 19 Pages of Specification, Claims and Abstract |
|  | 14 Sheets of Drawings |
|  | 02 Pages Combined Declaration and Power of Attorney |

Accompanying Application Parts:

- ☐ Assignment and Assignment Recordation Cover Sheet (recording fee of **\$40.00** enclosed)
- ☐ 37 CFR 3.73(b) Statement by Assignee
- ☒ Information Disclosure Statement with Form PTO-1449
- ☒ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard
- ☐ Small Entity Statement(s)
- ☒ Other: 1 page Correspondence Chart

Fee Calculation (37 CFR § 1.16)

	(Col. 1)	(Col. 2)	SMALL ENTITY		OR	LARGE ENTITY	
	<u>NO. FILED</u>	<u>NO. EXTRA</u>	<u>RATE</u>	<u>FEE</u>		<u>RATE</u>	<u>FEE</u>
BASIC FEE			\$380	\$	OR	\$710	\$ 710.00
TOTAL CLAIMS	<u>19</u>	-20 = <u>00</u>	x09 = \$		OR	x18 = \$	
INDEP CLAIMS	<u>04</u>	-03 = <u>01</u>	x40 = \$		OR	x80 = \$	80.00
[] Multiple Dependent Claim Presented			\$130 = \$		OR	\$260 = \$	
			Total	\$	OR	Total	\$ 790.00

☐ Check No. _____ in the amount of \$ _____ is enclosed.

☒ The Commissioner is authorized to charge fees in the amount required to Deposit Account No. 50-0384 (Order No. READP042).

General Authorization for Petition for Extension of Time (37 CFR §1.136)

☐ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 50-0384 (Order No. READP042).

☒ Please send correspondence to the following address:

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23053

PATENT, TRADEMARK OFFICE

Date: 12/21/00

Larry B. Guernsey
Registration No. 40,008

**REQUEST AND CERTIFICATION
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

CHEN, Yingjian

Title

INSULATION LAYER STRUCTURE FOR
INDUCTIVE WRITE HEADS AND METHOD OF FABRICATION

Atty. Docket Number

READP042

I hereby certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

12/21/00

Date

Larry B. Guernsey

Signature

Larry B. Guernsey, RN.:40,008

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

09745708-122100

INSULATION LAYER STRUCTURE FOR INDUCTIVE WRITE HEADS AND METHOD OF FABRICATION

Inventors: CHEN, Yingjian, SIN, Kyusik, and BARR, Ron

Atty. ref.: READP042

THIS CORRESPONDENCE CHART IS FOR EASE OF UNDERSTANDING AND INFORMATIONAL PURPOSES ONLY, AND DOES NOT FORM A PART OF THE FORMAL PATENT APPLICATION.

10	disk drive head with insulation shell
20	magnetic storage device
22	disk drive
24	magnetic storage medium
26	hard disk
28	data read/write device
30	arm
32	head
34	slider
36	magneto-resistive head
38	coil
40	leads
42	pole piece (second pole)
46	ABS
48	coating
50	read head
52	write head
54	shield layer
56	dual gap layer
58	MR sensor
60	first pole piece layer (P1)
62	non-magnetic gap layer
64	first insulation layer
66	second insulation layer (I2)
68	photo-resist material
70	second pole (P2)
72	first pole tip
74	second pole tip
76	write gap
78	back gap
80	apex angle α
100	first embodiment
102	insulation shell layer
103	dielectric material
200	second embodiment